THE CLAIMS

Having thus described the invention, what is CLAIMED is:

1. A saw frame assembly comprising: a generally planar frame including a back member having forward and rearward end portions; handle structure adjacent said rearward end portion of said back member and extending downwardly therefrom; a single, elongate arm member; and means for substantially nonremovably mounting said arm member on said forward end portion of said back member for pivotal movement between a first position, extending downwardly from said back member in confronting, coplanar, spaced relationship to said handle structure, and a second position extending generally along said back member, said arm member having a distal end portion, remote from said back member in said first position of said arm member, with a first pair of substantially transversely aligned blade-engaging elements on opposite sides thereof, taken with reference to a medial plane of said frame, and said forward end portion of said back member having a second pair of said transversely aligned blade-engaging elements on the opposite sides thereof; and a quick-release blade-tensioning mechanism mounted on said frame and including a movable member having a third pair of said transversely aligned blade-engaging elements on opposite sides thereof and being constructed to effect displacement of said movable member between blade-tensioning and blade-releasing positions, said handle structure of said frame having a cam bearing surface thereon, and said blade-tensioning mechanism comprising an operating member and a turnbuckle arrangement, said operating member having a cam element thereon disposed to engage said cam bearing surface and to cooperate therewith to effect such displacement of said movable member, said turnbuckle arrangement including a tension-adjusting link element that is readily

accessible for manual adjustment; said handle structure comprising a gripping component having a rearward surface portion, and said blade-tensioning mechanism including an operating lever pivotably mounted at a location spaced from said back member and comprising an arm portion that extends upwardly along and against said rearward surface portion of said gripping component in said blade-tensioning position of said mechanism, said arm portion being configured to cooperate with said gripping component to provide a hand grip for said saw assembly; each of said blade-engaging elements being constructed to engage one end of a removably mounted saw blade, one element of each of said pairs of blade-engaging elements lying substantially in a first lateral plane, disposed to one side of said medial plane, and being constructed to orient a mounted blade substantially parallel to said medial plane, and the other element of each of said pairs of elements lying in a second lateral plane, disposed to the opposite side of said medial plane, and being constructed to orient the mounted blade at a substantial angle to said medial plane, coplanar elements of said first and second pairs of blade-engaging elements in each of said first and second lateral planes being commonly disposed on an arc circumscribing the coplanar element of said third pair of blade-engaging elements; whereby said frame assembly can mount a saw blade, in either of two orientations, between said second and third pairs of blade-engaging elements for cutting within a relatively confined space, and can readily be converted to mount the blade between said first and third blade-engaging elements, with said arm member in said first position thereof, for cutting within a relatively unconfined space.

2. A saw frame assembly comprising: a generally planar frame including a back member having forward and rearward end portions; handle structure adjacent said rearward end portion of said back member and extending

downwardly therefrom; a single, elongate arm member; and means for substantially nonremovably mounting said arm member on said forward end portion of said back member for pivotal movement between a first position, extending downwardly from said back member in confronting, coplanar, spaced relationship to said handle structure, and a second position extending generally along said back member, said arm member having a distal end portion, remote from said back member in said first position of said arm member, with a first pair of substantially transversely aligned blade-engaging elements on opposite sides thereof, taken with reference to a medial plane of said frame, and said forward end portion of said back member having a second pair of said transversely aligned blade-engaging elements on the opposite sides thereof; and a quick-release blade-tensioning mechanism mounted on said frame and including a movable member having a third pair of said blade-engaging elements transversely aligned on opposite sides thereof and being constructed to effect displacement of said movable member between blade-tensioning and bladereleasing positions, each of said blade-engaging elements being constructed to engage one end of a removably mounted saw blade, one element of each of said pairs of blade-engaging elements lying substantially in a first lateral plane, disposed to one side of said medial plane, and being constructed to orient a mounted blade substantially parallel to said medial plane, and the other element of each of said pairs of elements lying in a second lateral plane, disposed to the opposite side of said medial plane, and being constructed to orient the mounted blade at a substantial angle to said medial plane, coplanar elements of said first and second pairs of blade-engaging elements in each of said first and second lateral planes being commonly disposed on an arc circumscribing the coplanar element of said third pair of blade-engaging elements; whereby said frame assembly can mount a saw blade, in either of two orientations, between said second and third pairs of blade-engaging elements for cutting within a relatively confined space, and can readily be converted to mount the blade between said first and third blade-engaging elements, with said arm member in said first position thereof, for cutting within a relatively unconfined space.

- 3. The assembly of Claim 2 wherein said arm member and said forward end portion of said back member have abutment elements which cooperatively define a limit of said first position of said arm member, and wherein said arm member is substantially rectilinear.
- 4. The assembly of Claim 2 wherein said forward end portion of said back member defines an upwardly opening channel in which said arm member is disposed in said second position thereof.
- 5. The assembly of Claim 2 wherein each of said blade-engaging elements comprises a conical pin tapered toward and projecting from an orienting, blade-supporting surface.
- 6. The assembly of Claim 2 wherein said handle structure of said frame has a cam bearing surface thereon, and wherein said blade-tensioning mechanism comprises an operating member and a turnbuckle arrangement, said operating member having a cam element thereon disposed to engage said cam bearing surface and to cooperate therewith to effect such displacement of said movable member, said turnbuckle arrangement including a tension-adjusting link element that is readily accessible for manual adjustment.
- 7. The assembly of Claim 6 wherein said handle structure has a channel extending inwardly from a forward surface thereof to proximate said cam bearing surface, wherein said movable member is a block slidably received in a forward section of said handle structure channel, and wherein said turnbuckle arrangement is received within a rearward section of said channel, said handle structure

having an opening therein communicating with said channel thereof and providing such access to said link element.

- 8. The assembly of Claim 2 wherein said handle structure comprises a gripping component having a rearward surface portion, and wherein said blade-tensioning mechanism includes an operating lever pivotably mounted at a location spaced from said back member and comprising an arm portion that extends upwardly along and against said rearward surface portion of said gripping component in said blade-tensioning position of said mechanism, said arm portion being configured to cooperate with said gripping component to provide a hand grip for said saw assembly.
- 9. A saw frame assembly comprising: a generally planar frame including a back member having forward and rearward end portions; handle structure adjacent said rearward end portion of said back member and extending downwardly therefrom; a single, elongate arm member; and means for substantially nonremovably mounting said arm member on said forward end portion of said back member for movement between a first position, extending downwardly from said back member in confronting, coplanar, spaced relationship to said handle structure, and a second position extending generally along said back member, said arm member having a distal end portion, remote from said back member in said first position of said arm member, with a first pair of substantially transversely aligned blade-engaging elements on opposite sides thereof, taken with reference to a medial plane of said frame, and said forward end portion of said back member having a second pair of said transversely aligned blade-engaging elements on the opposite sides thereof; and a quickrelease blade-tensioning mechanism mounted on said frame and including a movable member having a third pair of said blade-engaging elements transversely aligned on opposite sides thereof and being constructed to effect displacement

of said movable member between blade-tensioning and blade-releasing positions, said handle structure of said frame having a cam bearing surface thereon, and said blade-tensioning mechanism comprising an operating member and a turnbuckle arrangement, said operating member having a cam element thereon disposed to engage said cam bearing surface and to cooperate therewith to effect such displacement of said movable member, said turnbuckle arrangement including a tension-adjusting link element that is readily accessible for manual adjustment; each of said blade-engaging elements being constructed to engage one end of a removably mounted saw blade, one element of each of said pairs of blade-engaging elements lying substantially in a first lateral plane, disposed to one side of said medial plane, and being constructed to orient a mounted blade substantially parallel to said medial plane, and the other element of each of said pairs of elements lying in a second lateral plane, disposed to the opposite side of said medial plane, and being constructed to orient the mounted blade at a substantial angle to said medial plane, coplanar elements of said first and second pairs of blade-engaging elements being commonly disposed on an arc circumscribing the coplanar element of said third pair of blade-engaging elements; whereby said frame assembly can mount a saw blade, in either of two orientations, between said second and third pairs of blade-engaging elements for cutting within a relatively confined space, and can readily be converted to mount the blade between said first and third blade-engaging elements, with said arm member in said first position thereof, for cutting within a relatively unconfined space.

10. The assembly of Claim 9 wherein said handle structure has a channel extending inwardly from a forward surface thereof to proximate said cam bearing surface, and wherein said movable member is a block slidably received in a forward section of said handle structure channel and said turnbuckle

arrangement is received within a rearward section thereof, said handle structure having a lateral opening therein communicating with said channel thereof and providing such access to said link element.

11. A saw frame assembly comprising: a generally planar frame including a back member having forward and rearward end portions; handle structure adjacent said rearward end portion of said back member and extending downwardly therefrom; a single, elongate arm member; and means for substantially nonremovably mounting said arm member on said forward end portion of said back member for movement between a first position, extending downwardly from said back member in confronting, coplanar, spaced relationship to said handle structure, and a second position extending generally along said back member, said arm member having a distal end portion, remote from said back member in said first position of said arm member, with a first pair of substantially transversely aligned blade-engaging elements on opposite sides thereof, taken with reference to a medial plane of said frame, and said forward end portion of said back member having a second pair of said transversely aligned blade-engaging elements on the opposite sides thereof; and a quickrelease blade-tensioning mechanism mounted on said frame and including a movable member having a third pair of said transversely aligned blade-engaging elements transversely aligned on opposite sides thereof and being constructed to effect displacement of said movable member between blade-tensioning and blade-releasing positions, said handle structure comprising a gripping component having a rearward surface portion, and said blade-tensioning mechanism including an operating lever pivotably mounted at a location spaced from said back member and comprising an arm portion that extends upwardly along and against said rearward surface portion of said gripping component in said blade-tensioning position of said mechanism, said arm portion being configured

to cooperate with said gripping component to provide a hand grip for said saw assembly; each of said blade-engaging elements being constructed to engage one end of a removably mounted saw blade, one element of each of said pairs of blade-engaging elements lying substantially in a first lateral plane, disposed to one side of said medial plane, and being constructed to orient a mounted blade substantially parallel to said medial plane, and the other element of each of said pairs lying in a second lateral plane, disposed to the opposite side of said medial plane, and being constructed to orient the mounted blade at a substantial angle to said medial plane, coplanar elements of said first and second pairs of blade-engaging elements in each of said first and second lateral planes being commonly disposed on an arc circumscribing the coplanar element of said third pair of blade-engaging elements; whereby said frame assembly can mount a saw blade, in either of two orientations, between said second and third pairs of blade-engaging elements for cutting within a relatively confined space, and can readily be converted to mount the blade between said first and third blade-engaging elements, with said arm member in said first position thereof, for cutting within a relatively unconfined space.